WRITING EQUATIONS OF LINES GIVEN 2 POINTS – DAY 1

Write the equation of the lines passing through the given points in slope-intercept form.

1. (4, -3) and (3, -6)

When given *two or more* points, you can also use the STAT function in your calculator to find the equation of the line.

- Step 1: Go to STAT on your calculator.
- Step 2: EDIT is highlighted so press ENTER
- Step 3: Clear out anything that is in L_1 and L_2: Up arrow to highlight L_1, CLEAR, ENTER, Arrow over, Up arrow to highlight L_2, CLEAR, ENTER.
- Step 4: Enter x's in L_1. Press ENTER after each entry.
- Step 5: Arrow over and enter y's in L_2. Press ENTER after each entry.
- Step 6: Go back to STAT. Arrow over to CALC.
- Step 7: Choose #4 LinReg(ax+b).
- Step 8: Arrow down to "Calculate," and press ENTER.

Use the STAT function in your calculator to find the equation of the lines passing through the following points.

2. (-5, -5) and (5, 7)

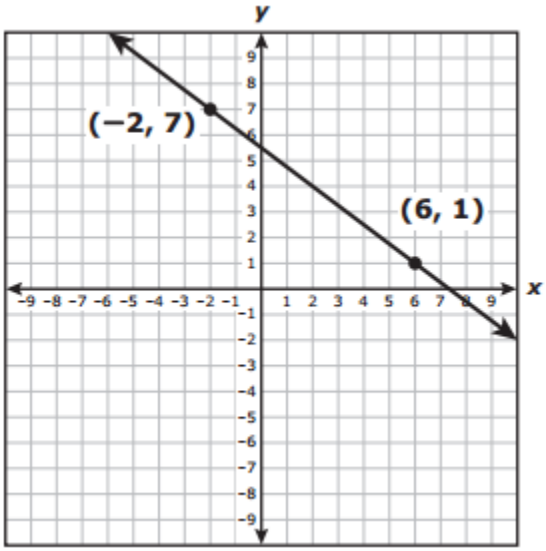
3. (-2, 5) and (4, 8)

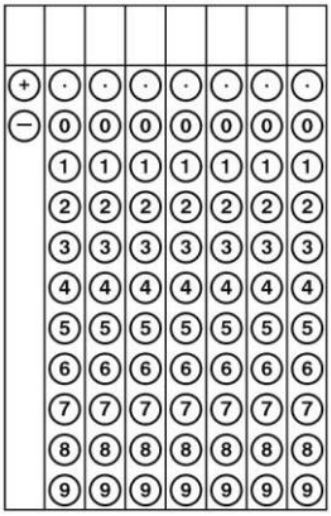
4.

x	y
-2	1
-1	3
0	5
3	11

Answer the following.

5. What is the y-intercept of the line graphed below?
Record your answer and fill in the bubbles on the grid.





6. Which function has (-4,-2) on its graph?

A. 3x – 2y = -16

C. 3x – 2y = -8

B. $y = \frac{3}{2}x - 4$

D. $y = 2x - 2$